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Department of Commerce and Labor COAST AND GEODETIC SURVEY

> Offelmann Superintendent.

State: alassa

DESCRIPTIVE REPORT.

Hyd = Sheet No. 29 40

LOCALITY:

Orca Inleh, Prince William Sound

190

Gelbert & Rude

2940a 2940b 2940c

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXFRESS OFFICE:

2940

Department of Commerce and Labor COAST AND GEODETIC SURVEY

SFP 28 1908

DESCRIPTIVE REPORT

to accompany Hydrographic Sheet

of

ORCA INLET.

1908.

Alaska.

Cilbert T. Rude,

Chief of Party.

In supplementing the Hydrography of Orca Inlet, it was considered easier and better to run a regular system of lines rather than attempt to fill in between lines of a previous survey, as the former would make a more complete survey, and in the same length of time. The lines were run Normal to the shoreline wherever practicable and a few check lines were run parallel to the shoreline. Nothing startling was found as to rocks or shoals, but a close system of regular lines was run on account of the growth of the town of Cordova and its growing importance, as all the large steamers on the run stop here: S.S. Northwestern; Santa Clara; Pennsylvania; Bertha; Portland; Yucatan and many large freight steamers and steam schooners, with freight and lumber for the copper River and Northwestern R.R. Co. which has headquarters at Cordova.

Current observations were made, one day off Orca Wharf

and one day off Cordova Wharf. Observations covering a longer period would have been taken, but it would have materially delayed the party on the Hinchinbrook Island work.

Orca Salmon Cannery, owned by the Northwestern Fisheries
Co. is located on the East shore of Orca Inlet, directly opposite Observation Island. The Cannery Company operate two
flat bottom stern wheel steamers to transport the catch of salmon from the Copper River flats to their Orca plant.

There is water piped to the end of the dock and could be obtained by vessels by making arrangements with the Superintendent of the Cannery.

There is 10 feet (mean lower low water) at outer end of present Dock., but the Company intend building out to 18 feet next season.

Cordova, the terminus and headquarters of the Copper River and Northwestern R.R. Co. is located in a small valley between Orca Inlet and Eyak Lake. Its population is about 450, considerably augmented in summer by the employees of the R.R. Co., with a payroll of 1200.

The town has grown considerably in the past few months since the Railroad has chosen it as headquarters instead of Katalla. There are three doctors; three drug stores; a hospital; meat market; grocery stores; dry goods, and hardware stores, but as yet no ships chandlery. The Company has a large and substantial wharf about 300 feet long on the East shore of the Inlet, one half mile North of Spike Island,

with 30 feet along outer end. They intend lengthening it 400 feet to Northward and work has begun on the new part.

It is planned to move the entire town to a lovation opposite Spike Island and along the Railroad one half mile from the dock. It has been surveyed, streets graded and considerable building has already been done.

On the East shore of Orca Inlet and about 2 and 1/2 miles North of Orca Cannery, there is a sawmill which saws about 10,000 feet of lumber daily. It was put into operation about the first of May, 1908. The Company is known as the Cordova Electric, Telephone and Mill Co. They intend utilizing the water power of the creek, on which the mill is located, to operate an electric light plant, for furnishing electric light for the town of Cordova. This creek is known as Humpback; Ammoktok (Indian name for Humpback) and Power Creek. The Mill Co. has given it the name "Power", but it is known locally as "Humpback Creek".

From Capt. Moore of the S.S. "Bertha" it was learned that there is very little ice in Orca Inlet during the winter season, only a little along the shores and nothing to interfere with steamers.

I would respectfully recommend that buoys be placed in Odiak Channel at its narrowest part, one on North and one on South side, as Steamers bound for Seattle, being light, could use this channel instead of going up Orca Inlet and rounding North of North Island on the way out, thereby saving about a five mile run. Capt. Blaine of the Alaska

S. S. Co's. "Pennsylvania" requested information concerning this channel and spoke of using it if it were buoyed.

Respectfully submitted.

Gilbert J. Rude.

Chief of Party.

SHEET AA

C, & G, SURVEY,
LIBRARY AND ARCHIVES,
ACC, NO.

Locality: Prince William Sound, Alaska.

Sublocality: Orca Inlet.

Topography supplemented by: Eoline R. Hand, Asst.

Inked by: Eoline R. Hand, Asst.

Hydrography supplemented by: Gilbert T. Rude, Asst.

Positions plotted by: F.G. Engle, Aid.

Soundings plotted by: Gilbert T. Rude, Asst. and F. G. Engle.

PLANE TABLE POSITIONS

to accompany

Sheet AA, Grea, Inlet

C. & G. SURVEY, LIGHARY AND ARCHIVES

Acc. No.

				•
ø	D. M.	λ	D.P.	Remarks
67° 32'	1410	145° 46¹	827	60 m. W of S.W. end Spike Id. Can be oc- Cupied at L.W.
60° 32'	1390	145° 46'	763	Trunk dead tree, 2 1/2' diam, edge Spike Id nearest above rock.
60° 32'	1622	145° 46'	551	NE end Spike Id, cannot be recovered.
60° 33'	1233	145° 481	408	Cannot be recovered.
60° 331	379	145 451	754	N Gable Large Wharf (1908) house, Cordova outer dock.
60° 331	1688	145° 451	27	cannot be recovered.
60° 34°	1819	145° 461	343	cannot be recovered.
69' 54'	1277	145° 43'	363	Gable at Carpenter shop; "GRCA" painted be low.
60° 351	397	145° 42¹	714	cannot be recovered.
60° 36°	1058	145° 441	92	Highest point, can be occupied at L.W.
69" 36"	1651	145° 41'	224	Cannot be recevered.
6 6 ° 37'	790	145° 45'	654	Almost coincident with Andria, cannot be recovered.
60° 32'	1377	145 51	213	Cannot be recovered.
60° 34'	419	145° 44'	410	Pillar at N side pec- uliar formation, resem- bling Church entrance. (See accompanying sketch)
	67° 32' 60° 32' 60° 33' 60° 33' 60° 34' 60° 34' 60° 36' 60° 36' 60° 36'	67° 32' 1410 60° 32' 1390 60° 32' 1622 60° 33' 1233 60° 33' 370 60° 34' 1819 60° 34' 1277 60° 36' 1058 60° 36' 1651 66° 37' 790 60° 32' 1377 60° 34' 419	67° 32' 1410 145° 46' 60° 32' 1390 145° 46' 60° 32' 1622 145° 46' 60° 33' 1233 145° 48' 60° 33' 570 145 45' 60° 34' 1819 145° 46' 60° 35' 307 145° 43' 60° 36' 1058 145° 44' 60° 36' 1651 145° 41' 60° 37' 790 145' 43' 60° 32' 1377 145' 51' 60° 34' 419 145° 44'	67° 32° 1410 145° 46° 827 60° 32° 1390 145° 46° 763 60° 32° 1622 145° 46° 551 60° 33° 1233 145° 48° 408 60° 33° 570 145° 45° 754 60° 34° 1819 145° 46° 345 60° 35° 307 145° 43° 365 60° 36° 1058 145° 44° 98 60° 36° 1651 145° 41° 224 66° 37° 790 145° 43° 654 60° 34° 1377 145° 43° 654

PLANE TABLE POSITIONS

to accompany

Sheet AA,Oroa, Inlet

Objects	ø	D. M.	λ	D.P.	Remarks
Rook	67° 32°	1410	145° 461	827	60 m. W of S.W. end Spike Id. Can be oc- Cupied at L.W.
Tree	60° 321	1399	145 46	763	Trunk dead tree, 2 1/2 diam, edge Spike Id nearest above rock.
Stem	60° 32'	1622	145° 46'	551	NE end Spike Id, cannot be recovered.
Twin	60° 33'	1233	145° 48'	408	Cannot be recovered.
Cable	60° 33¹	370	145° 45'	754	N Gable Large Wharf (1908) house, Cordova outer dook.
Wash	69 " 33 '	1688	145° 451	27	Cannot be recovered.
Low	60° 34'	1819	145° 461	343	Cannot be recovered.
Coe	60° 34°	1277	145° 48'	363	Gable at Carpenter shop; *ORCA* painted be low.
Hang	60° 35'	307	145° 421	714	Cannot be recovered.
North Rock	60° 361	1058	145° 44'	93	Highest point, can be occupied at L.W.
Saw	69° 36'	1651	145° 41'	224	Cannot be recovered.
Moss	60° 37'	790	145 43	654	Almost coincident with Almost de cannot be recovered.
End	60° 38'	1377	145° 51	213	Cannot be recovered.
P11 Croq. y Cordona.	60° 341	419	145° 44'	410	Pillar at N side pec- uliar formation, resem- bling Church entrance. (See accompanying sketch)

Hyd Skeet 40. 2940 - 1, 1908. The ground is fairly well covered with the exception of the area fetween the east shore and the 36 france, and the birken ground with of Spike Id. The shoul making across Odisk Channel with west of Tack should have been were carefully examined also the nock northeast of Goth Sof. In the records the beginning and end of lines were not described and the course not always given. Al Simone Dec. 12, 1908. Refer to my orders, dated march 7,1908, containing the paragraph: The Supplemental hydrography wanter is indicated by pencel lines on the projection, now in preparation and which well to mailed to your at Sealle as soon as completed." The 36 fathous curre is so close to the east strong that no further development is necessary, and would have consumed time, valuable to the other parts of the survey. Gelbret J. Ruse Pos. 37a (blue) is correctly plotted from the asst, Chief of Vary-

Pos. 372 (blue) is correctly plotted from the Cash, Chief of Virty.

Armsday record, but the two 26 fort soundings have been completely discretiff by
the close development of H. 5035. The line as plotted shows a speed of
4 kints by the dingly which is impossible. There is no recomble basis for
determining the correct location of pros. 37 and see of the soundings after pos. 36
have been rejuted by order of Chief, F.R. Dech.

E.P. Ellis Jan. 3,1931

2940



C. & G. SURVEY, LIBRARY AND ARCHIVES.

SEP 26 1908

Acc. Na.

Department of Commerce and Cabor COAST AND GEODETIC SURVEY

Off Amann
Superintendent.

State: alaska

DESCRIPTIVE REPORT.

Topography &

Sheet No. 2946

LOCALITY:

Orca Inleh,

Prince William

Sound

190 8

CHIEF OF PARTY

Gilbert T Ruda

Department of Commerce and Labor

Alaska.

June 1908.

DESCRIPTIVE REPORT to ACCOMPANY TOPOGRAPHIC

Sheet of Orca Inlet
Asst. Gilbert T. Rude,
Onlef of Party.

C. & G. SURVEY, LIBRARY AND ARCHIVES. SEP 26 1908 Acc. No.

Topography by

Asst. Eoline R. Hand.

The salient points as traced on the projection issued, were tested and found correct enough for all practical purposes.

The Northwestern Fisheries Co. has a salmon cannery located at Orca, which is just East of Observation Id. They will pack 40,000 cases of 48 cans each in season of 1908: there is a Post Office at Orca, also a general store conducted by the company.

North of Orca 2 1/2 miles, at mouth of Power Creek, a saw mill has recently been put in operation: there is a considerable fall of water which will be used later as motive power for the mill and possibly to generate electricity for Cordova: a partial use of water power is also made at Orca cannery.

The timber of this region is spruce and hemlock almost entirely, it is very thick, is good saw timber and greatly resembles the growth in Southeastern Alaska.

The shore line is chiefly precipitous cliffs of from 20 to 80 ft. in height; the heavily wooded islands, together with the country on the W, side of the Inlet, is comparatively low, not rising much above 400 feet, while on the East side the mountains rise abruptly to an elevation of about 2500 feet.

At the South end of Orca Inlet, on the E. shore and at end

No. 205 (Ed. 4-20-06-500,000.)

Department of Commerce and Tahor

of part navigable for large steamers, the Copper River and North-western R.R. has a large wharf; the line runs to Cordova, about 1 1/2 mi., then along the shore of Eyak lake. About 25 miles of this line have been completed but its ultimate terminus is the Bonanza Copper Mines region, reached by following the valleys of the Copper and Chitina rivers. It is expected that this road will be completed in 1910, together with a branch line to the Coal fields at Catalla.

Cordova, situated back in the valley between the inlet and Lake Eyak, is the headquarters of this R.R. and has a population of around 450, considerably augmented at this season by the employes of the R.R. company, it having a payroll of over 1200. It is planned to move the entire town to a location opposite spike Id., and it is here that the office for the new Government Cable will be located.

Mention should be made of the fact that nearly all the surrounding country is staked for copper.

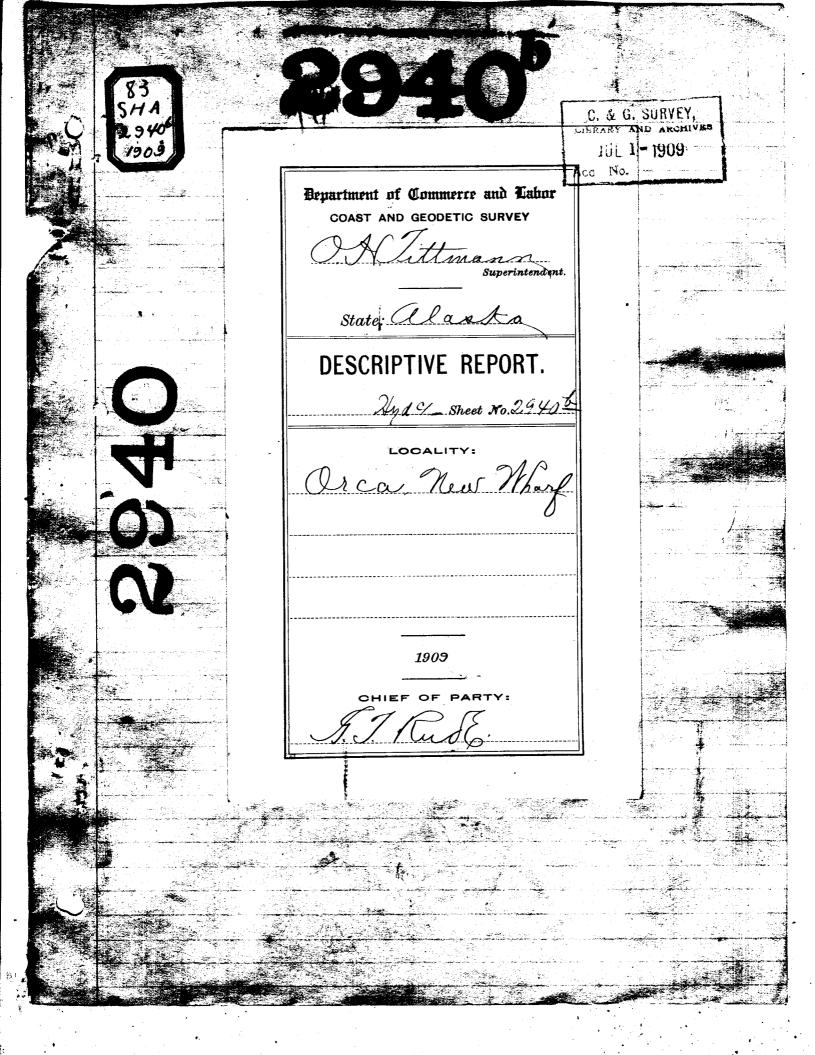
Asst. C. & G. Survey.

Approved:

Gilbert J. Rude.

Asst. C. & G. Survey.

chief of Party.



NEW WHARF, ORCA, ALASKA. Built in May , 1909.

This sheet is for the purpose of locating the new wharf built by the JUN 29 1909
North Western Fisheries Company at Orca, Alaska.

REFERRED TO

Station Coe is the gable of the carpenter shop at the above company's fishery. The plane table was act up under this gable and a line drawn to station new

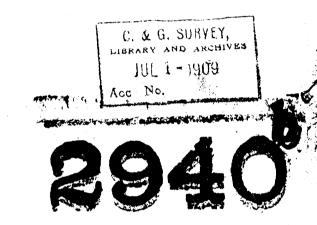
Root; the wharf was then drawn as shown. The old wharf is still standing and in use but the company contemplates tearing it down during the coming summer.

This sheet is to be adjusted to H2940 combined topographic and hydrographic sheet of Orca Inlet.

c.m. Code

may 31. 1909.

Elbert J. Rude. asst. Chy 2 Party.





2940c

C. & G. SURVEY,
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JUL 19 1915
Acc. No.

State: Clarka DESCRIPTIVE REPORT. Sheet No. 1948 C. LOCALITY: 191 OHIEF OF PARTY:		eriment of Commerce and Labor COAST AND GEODETIC SURVEY
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Street to Color to the

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

Steamer Taku, Cordova, Alaska.

Duriptin Report

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

On board Str. Taku, June 28th, 1915.

To the Superintendent, U. S. Coast & Geodetic Survey, Washington, D. C.

Sir:-

SURVEY JUL 9 1915 Assistant in Charge

THART CONSTRUCTION

I have the honor to forward herewith for the information of the Coast **@ヲ.S**. Pilot and Chart Divisions a supplemental hydrographic and topographic sheet IDAL DIV. of Orca, Alaska, showing the new dock and sounding lines made by the party under my charge, May 28th, 1915.

Not having the geographical positions for the astronomical station nor triangulation station Nibsy on Observation Island, no projection was made. These points were used in the survey and with them the survey may be adjusted. to the topographic sheet of this locality, work done by my party in 1908.

I am also forwarding by same mail, in separate package, a sounding record in which no tidal reductions have been made. Not having any tidal data at hand no tide staff was established but the relation of the height of the water to a tidal bench mark on the beach at Orca was ascertained just before and after making the soundings. A note in reference to this will be found on Page 2 of the sounding record. The bench wark used was the one established by my party in 1908. I do not know the number of it. However, it was the one established by my party in 1908 and is a copper bolt leaded into the top surface of the rocky beach.

This bench mark is on the beach in range with the smokestack of the cannery and the west gable of the fish butchering house. If I remember correctly this range was mentioned in the description of this bench mark made by my party If this bench mark cannot be identified at the office I would respectfully request that tidal data of this station be furnished me and I will identify the bench mark and advise you.

Respectfully,

Gelbert T. Rude

GTR: K

Chief of Party, C. & G. Survey.

HYDROGRAPHIC SHEET 2940°.

G. P. S.

Orca Inlet, Prince William Sound, Alaska, by Assistant Gilbert T. Rude in 1915.

TIDES.

			Orca ft.
Mean lower low water, plane of reference		staff	7.7
Lowest tide observed	11	11	4.0
Highest " "	11	tt	23.2
Mean range of tide			9.9